

Title (en)
Method of hardening a valve face in a poppet valve

Title (de)
Verfahren zum Härten vom Hubventilkopf

Title (fr)
Procédé de durcissement d'une tête de soupape

Publication
EP 1094202 A3 20020814 (EN)

Application
EP 00101170 A 20000121

Priority
• JP 29804999 A 19991020
• JP 30228599 A 19991025

Abstract (en)
[origin: EP1094202A2] In a valve head of a poppet valve used in an internal combustion engine, a lobe is formed. The lobe has a vertical section of an isosceles triangle which has a vertex in the middle. By pressing the lobe in a bore of a die, the lobe is plastically deformed, so that a valve face is formed at a position which contacts a valve seat. Suitable airtightness is obtained between the valve face and the valve seat. <IMAGE>

IPC 1-7
F01L 3/02; **F01L 3/20**; **B21K 1/22**

IPC 8 full level
F16K 27/00 (2006.01); **F01L 3/02** (2006.01); **F01L 3/20** (2006.01)

CPC (source: EP KR US)
F01L 3/02 (2013.01 - EP US); **F01L 3/20** (2013.01 - EP US); **F16K 27/00** (2013.01 - KR); **Y10T 29/49298** (2015.01 - EP US)

Citation (search report)
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• [A] US 5056219 A 19911015 - IWASE SATORU [JP]
• [A] EP 0280467 A1 19880831 - EATON CORP [US]
• [XA] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 07 31 July 1996 (1996-07-31)

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EP3088776A4; US10473002B2

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
EP 1094202 A2 20010425; **EP 1094202 A3 20020814**; CN 1305051 A 20010725; KR 20010039528 A 20010515; US 6295731 B1 20011002

DOCDB simple family (application)
EP 00101170 A 20000121; CN 00100812 A 20000214; KR 20000003964 A 20000127; US 48816000 A 20000120